Pace Analytical Services, Inc.
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4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

October 20, 2015

MARK PEACOCK
DUKE ENERGY EDWARDSPORT IGCC
15424 E. STATE ROAD 358
Edwardsport, IN 47528

RE: Project: Grey Water Treatment Profile
Pace Project No.: 50130218

Dear MARK PEACOCK:
Enclosed are the analytical results for sample(s) received by the laboratory on October 16, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
Project Manager

Enclosures

cc: Mr. Rhett Moody, Duke Energy (Edwardsport Generating Station)

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project:	Grey Water Treatment Profile
Pace Project No.:	50130218

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #:E-10177
Kentucky UST Certification #: 0042
Kentucky WW Certification #:98019
Louisiana Certification #: 04076
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2014-148
Texas Certification #: T104704355-15-9
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-10-00128

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SAMPLE SUMMARY

Project: Grey Water Treatment Profile
Pace Project No.: 50130218

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50130218001	**16:Filtered Water 20151013-031**	Water	10/13/15 09:45	10/16/15 11:30
50130218002	**55:GW Influent 20151013-032**	Water	10/13/15 08:20	10/16/15 11:30
50130218003	**55:GW In Process 20151013-033**	Water	10/13/15 08:25	10/16/15 11:30
50130218004	**16:Filtered Water 20151015-015**	Water	10/15/15 09:10	10/16/15 11:30
50130218005	**55:GW Influent 20151015-016**	Water	10/15/15 08:40	10/16/15 11:30
50130218006	**55:GW In Process 20151015-017**	Water	10/15/15 08:45	10/16/15 11:30

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SAMPLE ANALYTE COUNT

Project: Grey Water Treatment Profile
Pace Project No.: 50130218

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50130218001	**16:Filtered Water 20151013-031**	EPA 200.8	CAW	2
50130218002	**55:GW Influent 20151013-032**	EPA 200.8	CAW	2
50130218003	**55:GW In Process 20151013-033**	EPA 200.8	CAW	2
50130218004	**16:Filtered Water 20151015-015**	EPA 200.8	CAW	2
50130218005	**55:GW Influent 20151015-016**	EPA 200.8	CAW	2
50130218006	**55:GW In Process 20151015-017**	EPA 200.8	CAW	2

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ANALYTICAL RESULTS

Project: Grey Water Treatment Profile
Pace Project No.: 50130218

Sample: 16:Filtered Water 20151013-031 **Lab ID: 50130218001** Collected: 10/13/15 09:45 Received: 10/16/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Arsenic	ND	mg/L	0.0010	1	10/19/15 09:00	10/19/15 18:54	7440-38-2	
Selenium	ND	mg/L	0.0010	1	10/19/15 09:00	10/19/15 18:54	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Grey Water Treatment Profile
Pace Project No.: 50130218

Sample: 55:GW Influent 20151013-032 **Lab ID: 50130218002** Collected: 10/13/15 08:20 Received: 10/16/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Arsenic	**0.21**	mg/L	0.0050	5	10/19/15 09:00	10/19/15 18:19	7440-38-2	
Selenium	**0.14**	mg/L	0.0010	1	10/19/15 09:00	10/19/15 18:23	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Grey Water Treatment Profile
Pace Project No.: 50130218

Sample: 55:GW In Process 20151013-033 **Lab ID: 50130218003** Collected: 10/13/15 08:25 Received: 10/16/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Arsenic	ND	mg/L	0.0010	1	10/19/15 09:00	10/19/15 18:58	7440-38-2	
Selenium	ND	mg/L	0.0010	1	10/19/15 09:00	10/19/15 18:58	7782-49-2	

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ANALYTICAL RESULTS

Project: Grey Water Treatment Profile
Pace Project No.: 50130218

Sample: 16:Filtered Water 20151015-015 **Lab ID: 50130218004** Collected: 10/15/15 09:10 Received: 10/16/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Arsenic	ND	mg/L	0.0010	1	10/19/15 09:00	10/19/15 19:03	7440-38-2	
Selenium	ND	mg/L	0.0010	1	10/19/15 09:00	10/19/15 19:03	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Grey Water Treatment Profile
Pace Project No.: 50130218

Sample: 55:GW Influent 20151015-016 **Lab ID: 50130218005** Collected: 10/15/15 08:40 Received: 10/16/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Arsenic	**0.23**	mg/L	0.0050	5	10/19/15 09:00	10/20/15 11:27	7440-38-2	
Selenium	**0.11**	mg/L	0.0010	1	10/19/15 09:00	10/19/15 19:07	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Grey Water Treatment Profile
Pace Project No.: 50130218

Sample: 55:GW In Process 20151015-017 **Lab ID: 50130218006** Collected: 10/15/15 08:45 Received: 10/16/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Arsenic	ND	mg/L	0.0010	1	10/19/15 09:00	10/19/15 19:12	7440-38-2	
Selenium	ND	mg/L	0.0010	1	10/19/15 09:00	10/19/15 19:12	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Grey Water Treatment Profile
Pace Project No.: 50130218

QC Batch: MPRP/18268 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 50130218001, 50130218002, 50130218003, 50130218004, 50130218005, 50130218006

METHOD BLANK: 1404335 Matrix: Water
Associated Lab Samples: 50130218001, 50130218002, 50130218003, 50130218004, 50130218005, 50130218006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0010	10/19/15 18:10	
Selenium	mg/L	ND	0.0010	10/19/15 18:10	

LABORATORY CONTROL SAMPLE: 1404336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.04	0.039	97	85-115	
Selenium	mg/L	.04	0.039	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404337 1404338

Parameter	Units	50130218002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.21	.04	.04	0.24	0.33	68	284	70-130	30	20	M0
Selenium	mg/L	0.14	.04	.04	0.16	0.17	55	67	70-130	3	20	M3

MATRIX SPIKE SAMPLE: 1404339

Parameter	Units	50130029001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	ND	.04	0.037	93	70-130	
Selenium	mg/L	ND	.04	0.038	94	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Grey Water Treatment Profile
Pace Project No.: 50130218

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Grey Water Treatment Profile
Pace Project No.: 50130218

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50130218001	**16:Filtered Water 20151013-031**	EPA 200.8	MPRP/18268	EPA 200.8	ICPM/2180
50130218002	**55:GW Influent 20151013-032**	EPA 200.8	MPRP/18268	EPA 200.8	ICPM/2180
50130218003	**55:GW In Process 20151013-033**	EPA 200.8	MPRP/18268	EPA 200.8	ICPM/2180
50130218004	**16:Filtered Water 20151015-015**	EPA 200.8	MPRP/18268	EPA 200.8	ICPM/2180
50130218005	**55:GW Influent 20151015-016**	EPA 200.8	MPRP/18268	EPA 200.8	ICPM/2180
50130218006	**55:GW In Process 20151015-017**	EPA 200.8	MPRP/18268	EPA 200.8	ICPM/2180

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

1950075

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: DUKE ENERGY - EDWARDSPORT IGCC	Report To: MARK D. PEACOCK - DUKE ENERGY	Attention:
Address: 15424 E. SR 358	Copy To: RHETT MOODY - DUKE ENERGY	Company Name:
EDWARDSPORT IN 47528	RHETT.MOODY@DUKE-ENERGY.COM	Address:
Email To: MARK.PEACOCK@DUKE-ENERGY.COM	Purchase Order No.:	Pace Quote Reference:
Phone: 812 735-8583 Fax: 812 735-5838	Project Name: EDWARDSPORT GREY WATER TREATMENT PROFILE	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: INDIANA

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

5013018

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	As, Se 200.8	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	16: FILTERED WATER 20151013-031	WT	G						1			1							1		-001
2	55: GW INFLUENT 20151013-032	WT	G						1			1							1		-002
3	55: GW IN PROCESS 20151013-033	WT	G						1			1							1		-003
4	16: FILTERED WATER 20151015-015	WT	G						1			1							1		-004
5	55: GW INFLUENT 20151015-016	WT	G						1			1							1		-005
6	55: GW IN PROCESS 20151015-017	WT	G						1			1							1		-006
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Diana Reedy	10-15-15	1005	FedEx			
	FedEx 10/16/15		1130	Rehandled Pace	10/16/15	1130	2.0 2 N Y Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: DIANA REEDY

SIGNATURE of SAMPLER: Diana Reedy DATE Signed (MM/DD/YY): 10-15-15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Duke Energy

Project # 5013018

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 646745417775

Custody Seal on Cooler/Box Present: yes ☐ no Seals intact: yes ☐ no

Date/Time 5035A kits placed in freezer: _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None Other Box/ZPLC

Thermometer 1 2 3 4 5 6 A B C D E F Type of ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 20.2/20.2C Ice Visible in Sample Containers: ☐ yes no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 10/16/15 KM

Are samples from West Virginia? Document any containers out of temp.	☐Yes	☐No	1:
Chain of Custody Present:	Yes	☐No ☐N/A	2.
Chain of Custody Filled Out:	☐Yes	No ☐N/A	3. No date or time/See comments
Chain of Custody Relinquished:	Yes	☐No ☐N/A	4.
Sampler Name & Signature on COC:	Yes	☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	No ☐N/A	7.
Containers Intact:	Yes	☐No ☐N/A	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☐Yes	No ☐N/A	9. See comments below
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	Yes	☐No ☐N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)			12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes	☐No N/A	13
Headspace Wisconsin Sulfide	☐Yes	☐No	14
Trip Blank Present:	☐Yes	☐No N/A	15
Trip Blank Custody Seals Present	☐Yes	☐No N/A	
Project Manager Review			
Samples Arrived within Hold Time:	Yes	☐No ☐N/A	15.
Sufficient Volume:	Yes	☐No ☐N/A	16.
Correct Containers Used:	Yes	☐No ☐N/A	17.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Sample ID on containers is just the numbers after discription. TIMES on containers are as follows: ITEM 1 - 0945, ITEM 2 - 0820, ITEM 3 - 0825, ITEM 4 - 0910, ITEM 5 - 0840, ITEM 6 - 0845.

Project Manager Review: Kenneth Hunt Date: 10/17/15

Form F-IN-Q-290-rev.09, 13Oct2015

Sample Container Count

CLIENT: Duke Energy

COC PAGE 1 of 1
COC ID# 1950075

Project # 5013021B

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U					pH <2	pH >9	pH>12
1										1													✓		
2										1													✓		
3										1													✓		
4										1													✓		
5										1													✓		
6										1													✓		
7																									
8																									
9																									
10																									
11																									
12																									

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag